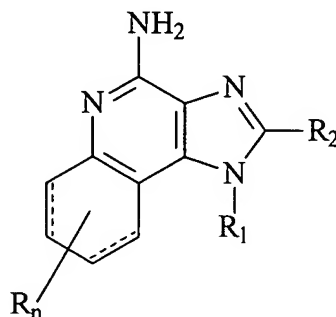


Amendments to the Claims:

1-28 (canceled)

29 (currently amended): A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a compound of the formula (I):



(I)

wherein

R₁ is -alkyl-NR₃- SO₂ -X-R₄ or -alkenyl-NR₃- SO₂ -X-R₄ ;

X is a bond or -NR₅-;

R₄ is aryl, heteroaryl, heterocyclyl, alkyl or alkenyl, each of which may be unsubstituted or substituted by one or more substituents selected from the group consisting of:

- alkyl;
- alkenyl;
- aryl;
- heteroaryl;
- heterocyclyl;
- substituted cycloalkyl;
- substituted aryl;
- substituted heteroaryl;
- substituted heterocyclyl;
- O-alkyl;

-O-(alkyl)₀₋₁-aryl;
-O-(alkyl)₀₋₁-substituted aryl;
-O-(alkyl)₀₋₁-heteroaryl;
-O-(alkyl)₀₋₁-substituted heteroaryl;
-O-(alkyl)₀₋₁-heterocyclyl;
-O-(alkyl)₀₋₁-substituted heterocyclyl;
-COOH;
-CO-O-alkyl;
-CO-alkyl;
-S(O)₀₋₂-alkyl;
-S(O)₀₋₂-(alkyl)₀₋₁-aryl;
-S(O)₀₋₂-(alkyl)₀₋₁-substituted aryl;
-S(O)₀₋₂-(alkyl)₀₋₁-heteroaryl;
-S(O)₀₋₂-(alkyl)₀₋₁-substituted heteroaryl;
-S(O)₀₋₂-(alkyl)₀₋₁-heterocyclyl;
-S(O)₀₋₂-(alkyl)₀₋₁-substituted heterocyclyl;
-(alkyl)₀₋₁-NR₃R₃;
-(alkyl)₀₋₁-NR₃-CO-O-alkyl;
-(alkyl)₀₋₁-NR₃-CO-alkyl;
-(alkyl)₀₋₁-NR₃-CO-aryl;
-(alkyl)₀₋₁-NR₃-CO-substituted aryl;
-(alkyl)₀₋₁-NR₃-CO-heteroaryl;
-(alkyl)₀₋₁-NR₃-CO-substituted heteroaryl;
-N₃;
-halogen;
-haloalkyl;
-haloalkoxy;
-CO-haloalkyl;
-CO-haloalkoxy;
-NO₂;

-CN;

-OH;

-SH; and in the case of alkyl, alkenyl, or heterocyclyl, oxo;

R₂ is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

-substituted aryl;

-heteroaryl;

-substituted heteroaryl;

- alkyl-O-alkyl;

- alkyl-O- alkenyl; and

- alkyl or alkenyl substituted by one or more substituents selected from the group

consisting of:

-OH;

-halogen;

-N(R₃)₂;

-CO-N(R₃)₂;

-CO-C₁₋₁₀ alkyl;

-CO-O-C₁₋₁₀ alkyl;

-N₃;

-aryl;

-substituted aryl;

-heteroaryl;

-substituted heteroaryl;

-heterocyclyl;

-substituted heterocyclyl;

-CO-aryl;

-CO-(substituted aryl);

-CO-heteroaryl; and

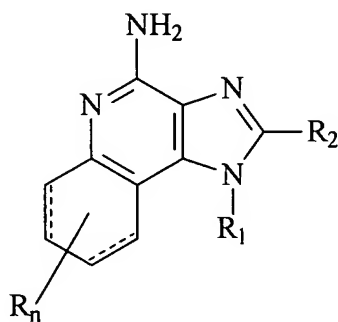
-CO-(substituted heteroaryl);

each R_3 is independently selected from the group consisting of hydrogen and C_{1-10} alkyl;

R_5 is selected from the group consisting of hydrogen and C_{1-10} alkyl, or R_4 and R_5 can combine to form a 3 to 7 membered heterocyclic or substituted heterocyclic ring;

n is 0 to 4 and each R present is independently selected from the group consisting of C_{1-10} alkyl, C_{1-10} alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof, to the animal.

30 (previously presented): A method of treating a viral disease in an animal in need thereof comprising administering to the animal an effective amount of a compound of the formula (I) that induces cytokine biosynthesis:



(I)

wherein

R_1 is -alkyl- NR_3 - SO_2 -X- R_4 or -alkenyl- NR_3 - SO_2 -X- R_4 ;

X is a bond or - NR_5 -;

R_4 is aryl, heteroaryl, heterocyclyl, alkyl or alkenyl, each of which may be unsubstituted or substituted by one or more substituents selected from the group consisting of:

-alkyl;

-alkenyl;

-aryl;
-heteroaryl;
-heterocyclyl;
-substituted cycloalkyl;
-substituted aryl;
-substituted heteroaryl;
-substituted heterocyclyl;
-O-alkyl;
-O-(alkyl)₀₋₁-aryl;
-O-(alkyl)₀₋₁-substituted aryl;
-O-(alkyl)₀₋₁-heteroaryl;
-O-(alkyl)₀₋₁-substituted heteroaryl;
-O-(alkyl)₀₋₁-heterocyclyl;
-O-(alkyl)₀₋₁-substituted heterocyclyl;
-COOH;
-CO-O-alkyl;
-CO-alkyl;
-S(O)₀₋₂-alkyl;
-S(O)₀₋₂-(alkyl)₀₋₁-aryl;
-S(O)₀₋₂-(alkyl)₀₋₁-substituted aryl;
-S(O)₀₋₂-(alkyl)₀₋₁-heteroaryl;
-S(O)₀₋₂-(alkyl)₀₋₁-substituted heteroaryl;
-S(O)₀₋₂-(alkyl)₀₋₁-heterocyclyl;
-S(O)₀₋₂-(alkyl)₀₋₁-substituted heterocyclyl;
-(alkyl)₀₋₁-NR₃R₃;
-(alkyl)₀₋₁-NR₃-CO-O-alkyl;
-(alkyl)₀₋₁-NR₃-CO-alkyl;
-(alkyl)₀₋₁-NR₃-CO-aryl;
-(alkyl)₀₋₁-NR₃-CO-substituted aryl;
-(alkyl)₀₋₁-NR₃-CO-heteroaryl;

-(alkyl)₀₋₁-NR₃-CO-substituted heteroaryl;
-N₃;
-halogen;
-haloalkyl;
-haloalkoxy;
-CO-haloalkyl;
-CO-haloalkoxy;
-NO₂;
-CN;
-OH;
-SH; and in the case of alkyl, alkenyl, or heterocyclyl, oxo;

R₂ is selected from the group consisting of:

-hydrogen;
-alkyl;
-alkenyl;
-aryl;
-substituted aryl;
-heteroaryl;
-substituted heteroaryl;
-alkyl-O-alkyl;
-alkyl-O-alkenyl; and
-alkyl or alkenyl substituted by one or more substituents selected from the group

consisting of:

-OH;
-halogen;
-N(R₃)₂;
-CO-N(R₃)₂;
-CO-C₁₋₁₀ alkyl;
-CO-O-C₁₋₁₀ alkyl;
-N₃;

-aryl;
-substituted aryl;
-heteroaryl;
-substituted heteroaryl;
-heterocyclyl;
-substituted heterocyclyl;
-CO-aryl;
-CO-(substituted aryl);
-CO-heteroaryl; and
-CO-(substituted heteroaryl);

each R_3 is independently selected from the group consisting of hydrogen and C_{1-10} alkyl;

R_5 is selected from the group consisting of hydrogen and C_{1-10} alkyl, or R_4 and R_5 can combine to form a 3 to 7 membered heterocyclic or substituted heterocyclic ring;

n is 0 to 4 and each R present is independently selected from the group consisting of C_{1-10} alkyl, C_{1-10} alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof that induces cytokine biosynthesis.

31 (canceled)

32 (previously presented): A method of inducing cytokine biosynthesis in an animal according to claim 29 wherein X is a bond.

33 (previously presented): A method of treating a viral disease in an animal in need thereof according to claim 30 wherein X is a bond.

~~34 (canceled)~~

35 (previously presented): A method of inducing cytokine biosynthesis in an animal according to claim 29 wherein X is $-NR_5-$.

36 (previously presented): A method of treating a viral disease in an animal in need thereof according to claim 30 wherein X is -NR₅-.

37 (canceled)

38 (previously presented): The method according to claim 29 wherein the animal has a viral disease.

39 (previously presented): The method according to claim 29 wherein the animal has a neoplastic disease.

40 (previously presented): The method according to claim 32 wherein the animal has a viral disease.

41 (previously presented): The method according to claim 32 wherein the animal has a neoplastic disease.

42 (previously presented): The method according to claim 35 wherein the animal has a viral disease.

43 (previously presented): The method according to claim 35 wherein the animal has a neoplastic disease.